



CATALOGUE OF 9-255 EXCAVATOR REPAIR PARTS



«MACHINOEXPORT»

CATALOGUE
OF 9-255
EXCAVATOR REPAIR PARTS

50X1-HUM

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PREFACE

This Catalogue includes the Specifications and a brief description of the 9-255 Excavator, as well as drawings of its main units and sketches of parts subjected to wear.

Refer to this Catalogue when drawing up a list of spare parts required for replacement during general overhaul and maintenance operations.

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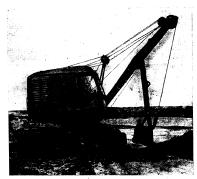
The specified therein data on the amount of the parts required per unit, and for the Excavator on the whole, as well as those concerning weight and material of the part in question, will allow to account the quantity of material needed for their production at User's repair shops.

The grades of steel shown in the Catalogue are in conformance with All-Union Standards (GOST), except for steel 30 ГЛ (Plant specification).

The Catalogue may be used likewise as a handbook to be referred to when some of the parts are disassembled in warehouse conditions, and also for acquainting oneself with the design of individual units and repair parts.

BRIEF DESCRIPTION OF THE 3-255 EXCAVATOR

The 9-255 Excavator is intended for various earthwork, construction and mounting operations, as well as for handling jobs performed in municipal, industrial, and road building.



General view of the Excavator

The Excavator may be equipped with a no-crowd straight shovel, a back shovel, a clamshell, and a crane, the latter having either an 8 m boom (for handling operations on loads up to 5 tons), a boom of 12, 15 or 18 m (for construction and mounting operations on loads up to 2 tons), or, finally, an 18 m boom fitted with a goosneck (for construction and mounting operations on loads up to 1 ton).

The Excavator consists of a turntable with the power unit, mechanisms and cab, further on, of a track frame unit, and a set of changeable working equipment.

able working equipment.

On the turntable are installed: an engine with drive mechanisms, the main transmission shaft with reversing device, main winch, boom luffing winch, swinging mechanism, and the track frame unit transmiss-

ion. The control panel is situated on the right front part of the turntable. The track frame assembly of the Excavator consists of a special two-axle bogie on pneumatic tyres driven by a J.54 Diesel engine, placed on the turntable.

The construction of the Excavator comprises the rear axle of the JA3-200 automobile, and a special drive front axle. The axle is driven by the bottom transmission through propeller shafts. The rear axle is rigidly fastened to the frame, while the front axle is suspended on springs.

The Excavator has two turntable swinging speeds and four front and back travelling speeds. All shafts rest in rolling friction bearings. The gear transmissions are enclosed in housings.

The main winch drum clutches are engaged by friction plates. The main winch brakes are of the open type. Loads are lowered either on engaged brakes or with engine operating.

All mechanisms of the Excavator turntable are controlled by levers. Hydraulic control is used for the front and rear wheel brakes, and the power train; the steering control of the front wheels and shifting of the track frame bottom transmission gears are likewise of the hydraulic type.

The operating diagram of the Excavator mechanisms provides for either of above operations to be combined, except for travelling with simultaneous swinging of turntable.

SPECIFICATIONS

General Data Minimum turning radius. mm

Excavator travelling speed, km per hr 1.3-	Minimum turning radius, mm 8200					
Tread, mm: f-ont wheels rear wheels Excavator wheelbase, mm	1950 1920 2800	Number of cuts per min 4 Radius of arc performed by the tail end of the cab, mm				
Engine:						
	Д-54 54 1300	width				
Maximum rising gradient during high- way travel, degrees	20	Weight (equipped with a straight shovel), tons				
W	orking I	Equipment				
Straight Shovel		Maximum cutting depth at 45° boom incline, m :				
Bucket capacity, cu. m	0.25	for ditches 4.0				
Length, m:		for pits 2.6 Boom incline				
boom	4.5	45° 60°				
dipper stick	2.35	man and the same				
	incline	Dumping radius, m: initial 4.32 3.95				
45°	60°	final 6.29 5.24				
Maximum radius, m:		Radius of dumping into vehicles, m 1.91 2.65				
dumping 5.25	4.76					
cutting	5.37	Dragline				
Maximum dumping height, m 3.31	4.26	Bucket capacity, cu. m 0.35 Boom length, m 8 Boom incline				
Back Shovel		30° 45°				
Bucket capacity, cu. m	0.25	Maximum radius, m: dumping 7.8 6.5				
Length, m:		cutting 9.2 8.4				
boom	4.5	Maximum dumping height, $m \dots 2.8$ 4.5				
dipper stick	2.35	Cutting depth during side travel, m 3.6 3.0				

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Crane Maximum hook hoisting height, m Maximum hook hoisting height, m Clearance radius, m Hoisted load, tons Boom length, Clearance radius, m Boom length, 4.5 16.5 1.4 3.6 18 17 0.25 8 10.5 3.2 12 11.6 0.8 4.8 18 with a 5 m goosneck 20 17 13.7 14 0.35 15 0.5 14.3 6.5

Clamshell

 Boom length, m
 8 and 12

 Bucket capacity, cu. m
 0.35

 Clearance radius range, m
 4.8 – 7.6

 Maximum dumping fieight, m
 9.5

REPAIR PARTS

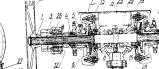
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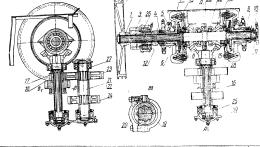


		•					
on drawing	Part No.	Part name	Sketch of part	Qua F	intity er actine	Part weight, kg	Material grade
1	0202-02	Drive sprocket	8 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1		1	7.5	Steel, 45
2	0202-04	Drive sheave		1	1	1.7	Gray cast iron, 15-32
3 4 5	No. 214 No. 216	Ball bearing 70 × 125 × 24 Ball bearing 80 × 140 × 26 Three-row Gall's chain, t=19.05, 132 links	- - -	1 1 1	1	1.04	

TIP

Unit 0300-00. Reversing Gear Unit 0300-00. Reversing Gear





Item number on drawing	Part No.	Part name	Sketch of part		ntity er achine	Part weight,	Material grade	
on ltem				nit	Ш	NK.		
1	0301-01* 03015-01**	Horizonial shaft		1	1	22.3	Steel. 40X	
2	0301-02A* 03015-02**	Three-row sprocked	1-025; 2-85	1	1	29.3	Steel, 301 Л	

* Installed on Excavators from No. 1 to No. 474 inclusive ** Installed on Excavators from No. 475 onward

A 사			Sketch of part	Quantity per		Part	Material	
Item number on drawing	Part No. Part name		- 82.5 -65-		weigh kg		grade	
3	0301-03* 03015-03**	Pinion gear	27. m=8	1	I	8.3	Steel, 40X	
4	0301-09* 03016-09**	Left coupling	2000	1	1	0.95	Steel, 45	
5	0301-15	Clutch pawl		6	9	0.35	Steel, 45	
6	0301-20	Crowd ring	100 m	2	3	0.35	Steel, 15X	
7	0301·21** 0401·37***	Clutch	25	2	3	26,2	Steel, 30ГЛ	

^{*} Installed on Excavators from No. 91 to 474 inclusive
** Installed on Excavators from No. 475 onward
*** The old and new numbers shown are interchangeable

	Unit 0300-00, Reversing Gear
10	Sketch of nart

19	

75 PE				Qua P	ntity er	Part	Material
on drawing bart No.	Part name	Sketch of part	mit	machine	weight, kg	grade	
8	0301-22	Release spring	0225	2	3	1.65	Steel, 65Γ
9	0301-27* 0301E-27**	Right coupling	- 17-17-17-18-18-18-18-18-18-18-18-18-18-18-18-18-	1	2	0.92	Steel, 45
10	0301-31	Gear semi-coupling	8 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1	1	2.4	Steel. 5
11	0301-32	Gear sleeve	252 2-32; m=25	1	1	0.62	Steel, 5
12	0301-38	Lock spring	est 3º	1	6	0.021	п-11

Installed on Excavators from No. 1 to No. 474 inclusive
 Installed on Excavators from No. 475 onward

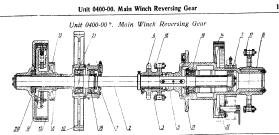
Unit	0300-00.	Reversing	Gear

			O-200 Excavator				
ng d				Quantity per		y Part	Materia
ltem number on drawing bart No.	Part No.	Part name	Sketch of part	mit	machine	weight,	grade
13	ЭКС-166	Clutch shoe	20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1	8	12	0.78	Plastic, КФ-3М
1-1	03011-00.A* 030116-00**	Bevel gear	0000	2	2	14.0	Steel, 403
15	0302-01	Bevel gear	20. E. S.	1	1	8.6	Steel, 40M
16	0302-02	Vertical shaft	475 475 475 475 475 475 475 475 475 475	1	ı	10.2	Steel, 40X

•	Installed	on	Excavators	from	No	1 to No. 474 inclusive	
**	Installed	on	Excavators	from	No.	475 onward	

			Unit 0300-00. Reversing Gear				15
ltem number on drawing	Part No.	Part name	Sketch of part	Qua p	ntity er er	Part weight, kg	Material grade
17	0302-03	Pinion gear	144 1254 1-17, m = 8	1	1	2.3	Steel, 40X
18	0302-04	Pinion gear	25 1-21, m-5	I	1	9.6	Steel, 40X
19	0302-05	Switching collar	\$ 8 P	1	The state of the s	0.85	Bronze, AЖ 9-4
20	0302-06	Switching clamp		1	1	0.46	Bronze, AЖ 9-4

3 94				Qua P	ntity er	Part	Material
on drawing	Part No.	Part name	Sketch of part	mit	machine	weight, kg	grade
21	0303-01 A*	Countershaft	22.0000	1	1	9.8	Steel, 403
22	0303-015**	Countershaft	600	1	1	9.0	Steel, 407
23	0303-04	Pinion gear	55 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1	1	15.4	Steel, 403
24	0303-06	Pinion gear		1	1	10.5	Steel, 40X
25	No. 314	Ball bearing 70 x ×150 × 35	-	2		2.6	
26	No. 3518	Spherical roller bearing 90×160× ×40		1		3.6	
27	No. 3612	Spherical roller bearing 60×130× ×46	- 	2		3.0	
28	No. 3614	Spherical roller bearing 70×150× ×51		1		4.4	
29	No. 7513	Tapered roller bea- ring 65×120×33	-	4		1.48	
30	No. 8210	Thrust ball bearing 50×78×22		1		0.39	



h	10 3			Qua P	ntity er	Part	Material
Item number on drawing	Part No.	Part name	Skeich of part	tiun	тасніпе	weight, kg	grade
1	0301-38	Lock spring	See unit +300-00, item 12	1	6	0.621	П-11
2	0401-01	Reversing shaft	\$50 AND	1	1	35.7	Steel, 40X
3	0401-04	Sprocket sleeve	135	1	1	2.1	Bronze. AЖ 9-4
4	0401A-05	Double-row sprocket	2 - N; t = 80 - 150 -	1	1	11.0	Steel, 30ГЛ
5	0401A-09	Pawl coupling		1	1	6.4	Steel, 30ГЛ

[•] Installed on Excavators from No. 1 to No. 90 inclusive

Part No.

6 0401-10

7 0401-17

8 0401-19

9 0401-22

10 0401-22

9-255	Excavator

		_			
		Quar	tity r	Part	Material
Part name	Sketch of part	anit	machine	weight,	grade
Sheave		1	1	5,9	Steel, 30ГЛ
Split bushing	0.000	1	1	5.0	Bronze, AЖ 9-4
Single-row sprocket	2.48; 1-40	1		19.3	Steel, 30F/1
Friction plate	30 0 0	1	1	20.9	Steel, 30Г/Л
Cylindrical gear- wheel		1	1	22.2	₹ Steel, 30∏1

Unit 0400-00. Main Winch Reversing Gear

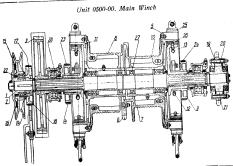
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ng n				Quar	ntity er	Part	Material
item number on drawing	Part No.	Part name	Sketch of part	unit	machine	weight,	grade
11	04012-00	Boom-luffing drum		1	1	49.1	
12	0403-03 <i>A</i>	Ratchet pawl	20 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1	1	0.41	Steel, 45
13	04051-01	Belt gasket	8	2	2	0.12	Ferrodo
14	ЭКС-168-1	Brake band lining	- 400 - 274 - 400	6	6	0.157	Plastics, КФ-3М
15	ЭКС-169	Friction band lining		8	24	0.157	Plastics KΦ-3M
16 17 18 19 20 21	No. 216 No. 312 No. 314 No. 3614	Gall's chain t=60, Gall's chain t=60, Ball bearing 80 × I Ball bearing 60 × I Ball bearing 70 × I Spherical roller be	L = 2.1 m; L = 2.16 m; 40 × 26 m; 40 × 26 m; 50 × 35 s; 50 × 35 s; 40 × 26 m; 40 ×	1 1 1 2 1 1	1	22.47 23.11 1.38 4.71 2.6 4.4	

ng							Quar	er	Part	Material
Item number on drawing	Part No.	Part name		etch of pa	rt		mit	machine	weight, kg	grade
1	0301-15	Clutch pawl	See unit	0300-00,	item 5		3	9	0.35	Steel, 45
2	0301-20	Crowd ring	See unit	0300-00,	item 6		1	3	0.35	Steel, 15X
3	0301-21	Clutch	See unit	0300-00,	item 7		1	3	26.2	Steel, 30ГЛ
4	0301-22	Release spring	See uni	0300-00,	item 8		1	3	1.65	Steel, 65F
5	0301-27	Right coupling	See uni	0300-00,	item 9		1	2	0.92	Steel, 45
6	0301-38	Lock spring	See uni	t 0300-00,	item 12		1	6	0.021	П-11
7	0401A-01	Reversing shaft		- 095 - 095			1	1	42.0	Steel, 40X
. 8	0401-04	Sprocket sleeve		See unit	0400-00,	item 3	1	1	2.1	Bronze, AЖ 9-4
9 10 11	0401A-05 0401A-09 0401-17	Double-row sprock Pawl coupling Split bushing	et	See unit	0400-00, 0400-00, 0400-00,	item 5	1 1	1 1 1	11.0 6.4 5.0	Steel, 30ГЛ Steel, 30ГЛ Bronze, AЖ 9-4
12 13 14 15 16	0401-19 0401A-22 04012-00 0403-03A ЭКС-166	Single-row sprock Cylindrical gear-w Boom-luffing drum Sprocket pawl Clutch shoe	.eel	See unit	0400-00,	item 8 item 10 item 11 item 12 item 13	1 1 1 4	1 1 1 1 12	19.3 22.2 49.1 0.41 0.78	Steel, 30ГЛ Steel, 30ГЛ Steel Steel, 45 Plastics, KФ-3M
17	ЭКС-168-1	Brake band lining		See unit	0400-00,	item 14	6	6	0.157	Plastics,
18 19	=	Gall's chain, t=60 Gall's chain, t=60	l = 2.1 m l = 2.16 m	See unit	0400-00, 0400-00,	item 16 item 17	1	1	22.47 23.11	КФ-3М
20 21 22	No. 312 No. 3614 No. 7513	Ball bearing 60×1 Spherical roller bea Tapered roller bea	aring 70×150×51				2 2 1		4.71 4.4 1.48	

[•] Installed on Excavators from No. 91 onward

Unit 0500-00. Main Winch



		u ij	•				
Item number on drawing	Part No.	Part name	Sketch of part	Quai	machine au	Part weight, kg	Material grade
1	0501-01*	Main winch shaft	12.5 SEE	1	1	40.6	Steel, 40X
2	0501 A-01**	Main winch shaft	21.684 889 889 889 889 889 889 889 889 889 8	1	1	40.2	Steel, 40X
3	0501-02	Cylindrical gear- wheel	2-70, m-d	1		33.25	Steel, 30ГЛ
			and and an a sp		ar!	1 .	1.

<sup>Installed on Excavators from No. 19 to No. 260 inclusive; not used as a spare part
Installed on Excavators from No. 271 onward. On Excavators up to No. 260 used as a spare part together with
Installed on Excavators from No. 271 onward. On Excavators up to No. 260 used as a spare part together with
Installed on Excavators from No. 271 onward. On Excavators up to No. 260 used as a spare part together with
Installed on Excavators from No. 271 onward. On Excavators up to No. 260 used as a spare part together with
Installed on Excavators from No. 271 onward. On Excavators up to No. 260 used as a spare part together with
Installed on Excavators from No. 271 onward. On Excavators up to No. 260 used as a spare part together with
Installed on Excavators from No. 271 onward. On Excavators up to No. 260 used as a spare part together with
Installed on Excavators from No. 271 onward. On Excavators up to No. 260 used as a spare part together with
Installed on Excavators from No. 271 onward. On Excavators up to No. 260 used as a spare part together with
Installed on Excavators from No. 271 onward. On Excavators up to No. 260 used as a spare part together with
Installed on Excavators from No. 271 onward. On Excavators up to No. 260 used as a spare part together with
Installed on Excavators from No. 271 onward. On Excavators up to No. 260 used as a spare part together with the Installed on Excavators from No. 271 onward.</sup>

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Material

no drawing on drawing Quantity per linit Part weight, kg Part name Sketch of part Part No. grade 5.9 Steel, 30 ГЛ 4 0501A-09 Left sheave 5 0501-11 Right friction drum

0501-22A

0501-24

Crane drum

9-255 Excavator

117 -	1	1	54.25	Steel, 30ГЛ
1.27, 1-60	The second secon	1	15.0	Steel, 30ГЛ
250	T	1	51.7	Steel, 30I Л

Unit	0500-00.	Main	Winch

,	0	

ber 1g			A STATE OF THE STA	Quan		Part	.Material
Item number on drawing	Part No.	Part name	Sketch of part	nnit	machine	weight, kg	grade
. 8	0501-27	Straight shovel drum	220		1	47.8	Steel, 30F7
9	0501 A-28	Right sheave		1	1	5.9	Steel, 30F.
10	0501-39	Dragline drum	237	1	1	51.2	Steel, 30F
11	05013-01	Left friction drum		1	1	54.25	Steel, 301

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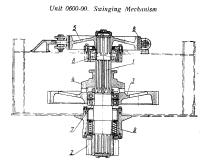
24			9-255 Excavator				
- e				Qua	ntity er	Part	Material
Item number on drawing	Part No.	Part name	Sketch of part	nuit	machine	weight, kg	grade
12	0502-10	Spring, coil	n2 — 025	2	3	0.5	П-11
13	0502-15	Spring, coil	m — 225	2	3	0.08	N-11
14	0506-01A	Drum		The state of the s	THE RESERVE THE PROPERTY OF TH	4.81	АЛ-2
15	0506-02	Gasket		ı	1	0.31	Plastics, KФ-3M
16	0506-03	Drive plate	000	1	1	5.67	Steel, 25Л 111

		-	Unit 0500-00. Main Winch				25
Item number on drawing	Part No.	· Part name	Sketch of part	Qua	ntity er	Part weight,	Material grade
Hem Hem	0506-04	ldler sheave		n 1	machine	0.95	Steel, 5
18	0506-05	Sheave	100 (-164	1	1	5.46	Gray cast iron, 21-40
19	0508-01	Single-row spro.ket	2 +15; t+60	1	1	13.1	Steel, 40X
20	0508-04	Ratchet roller	59	6	6	0.07	Steel, 40X

<u> </u>				Qu	antity per	Part	
Item number on drawing	Part No.	Part name	Sketch of part	unit	machine	weight,	Material grade
21	0508-09	Winch ratchet	955	I	1	6.38	Steel, 40X
22	0301-38	Lock spring	See unit 0300-00, item 12	4	6	0.021	П-11
23	05071-02	Belt gasket	278	2	4	0.12	Ferrodo
24	04051-01	Belt gasket	See unit 0400-00, item 13	4	4	0.157	Plastics, KΦ-3M
25	ЭКС-168-2	Brake band lining	195	16	16	0.21	Plastics, KΦ-3M
26	ЭКС-169	Friction band li-	See unit 0400-00, item 15	16	24	0.157	Plastics, ΚΦ-3M
27	No. 216	Ball bearing 80 × × 140 × 26	-	9		1.38	
28	No. 316	Ball bearing 80× ×170×39		2	2	3.6	
			· ·			,	

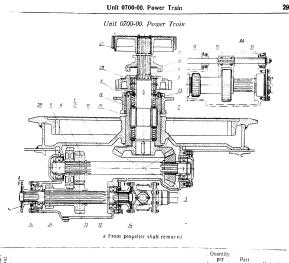
Unit 0600-00. Swinging Mechanism

27



nber				Qua P	ntity er	Part	Material
Item number on drawing	Part No.	Part name	Sketch of part	nnit	machine	weight, kg	grade
1	0601-01	Shaft	619	1	1	26.04	Steel, 40X
2	0601-02	Cylindrical gear- wheel	9.52 9.72 5.50 8 8	1	1	7.89	Steel, 40X

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apper				Q	uanti per	ty	Part	Material
Hem number	Part No	Part name	Sketch of part	1	machine	"	reight, kg	grade
3	6601-11	Cylindrical gear- wheel	2-70, m.d. =-61-			1 4	0.6	Steel, 30F,
4	0001-12	Pawl coupling	972 OSE	1	2		5.91	Steel, 30FA
5	0601-15	Brake sheave	0.52	I	1	15	.13	Steel, 35/1 111
6	ЭКС-168-3	Brake band lining	155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 - 155 -	s	16	0.	13	Plastics, КФ-3М
7	No. 218	Ball bearing 90 x ×160 x 30		2	4	2.2		
8	No. 3614	Spherical roller bearing 70 x 150 x		1		4.4	i	
9	No. 5218	×51 Roller bearing with twisted rollers 90×160×70	-	1	3	7.3	-	



Hem number on drawing	Part No.	Part name	Sketch of part	F	ntity er outpau	Part weight, kg	Material grade
- B				Ť	E	KK.	<u></u>
1	0701-01 A*	Top horizontal shaft	2004	1	1	23.3	Steel, 40X
2	0701-016**	Top horizontal shaft	778	1	1	23,3	Steel, 40X

* Installed on Excavators from No. 1 to No. 260 inclusive ** Installed on Excavators from No. 261 onward Continued Conv. Approved for Delance 2010/10/10 - CIA DDDP1 010/12/D00000180004 9

9-255 Excavator Item number on drawing Part weight, kg Material Part No. grade 3 0701-02A Bevel gear 1 1 12.8 0701-03A Cylindrical gear-wheel 5 0701-01 Cylindrical gear-wheel 6 0702-01 Vertical shaft 26.95 Steel, 40X 0702-02 Bottom thrust ring 1.12 Bronze. AЖ 9-4

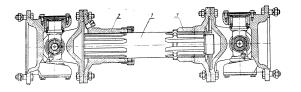
			Unit 0700-00. Power Train		-		31
Item number on drawing	Part No.	Part name	Sketch of part		antity per	Part weight,	Material grade
8		Top thrust ring		ımit	E	0.518	Bronze, AЖ 9-4
9	0702-12	Cylindrical gear- wheel	22 - 36 m d	1	Marie de la companya	18.5	Steel, 30T/I
10	0702-15	Bevel gear	2 23 m - 22 3 m - 22 3 m - 12 5	1	1 -	28.5	Steel, 40X
11	0702-16	Brake sheave	0.68	1	1	18.7	Gray cast iron, 21-40

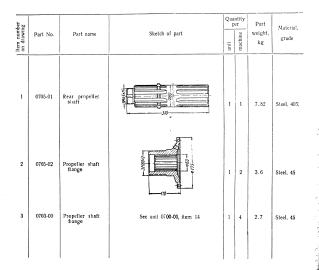
32			9-255 Excavator								Unit 0700-00. Power Train				33
Item number on drawing	Part No.	Part name	Sketch of part	Quan	er .	Part weight, kg	Material grade	Hem number on drawing	Part No.	Part name	Sketch of part	Qua p	ntity er or	Part weight, kg	Material, grade
12	0703-01	Bottom horizontal shaft	570	7	1	25.6	Steel, 40X	17	0704-04	Rear sleeve		1	1	0 85	Brenze, AЖ 9-4
			2,=14					18	0601-12	Pawl coupling	See unit 0600-00, item 4	1	2	6.91	Steel, 30F/I
13	0703-02	Cluster gear	m=0 - 50 - 256 - 60 - 1	1	1	14.9	Steel, 40X	19	1100-02	Journal sleeve	0276	1	1	4.7	Bronze, АЖ 9-4
14	0703-09	Propeller shaft flange	27.6	2	4	2.7	Steel, 45	20	5500-08	Crown ring	91360	1	1	200.0	Steel, 30ГЛ
15	0704-01A	Shift yoke	- n 200	1	1	1.75	Steel. 25/1 111	21	5500-09	Power train journal	0000 0000 0000 0000 0000 0000 0000 0000 0000	1	1	31.0	Steel, 30ГЛ
			100 120					22	ЭКС-168-3	Brake band lining	See unit 0600-00, item 6	8	16	0.13	Plastics, ΚΦ-3Μ
								23	No. 218	Ball bearing \$0 × × 160 × 30	en	2		2.2	
16	0704-03	Front sleeve		1	`1	0.86	Bronze, AЖ 9-4	24	No. 3612	Spherical roller bearing 60×130×46		4		3.0	
			40					25	No. 5218	Roller bearing with twisted rollers \$0 × 160 × 70	_	2		7.3	
					l				1	ı				,	

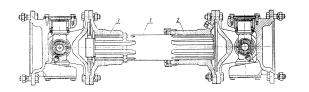
			Unit 0700-00. Power Train				33
ng l			A record to the second	Qua P	ntity er	Part	Material,
Item number on drawing	Part No.	Part name	Sketch of part	unit	machine	weight, kg	grade
17	0704-04	Rear sleeve		The state of the s	1	0 85	Bronze, AЖ 9-4
18	0601-12	Pawl coupling	See unit 0600-00, item 4	1	2	6.91	Steel, 30ГЛ
19	1100-02	Journal sleeve	775	1	1	4.7	Bronze. АЖ 9-4
20	5500-08	Crown ring	01160 01000 1=85; m=12	1	1	200.0	Steel, 30ГЛ
21	5500-09	Power train Journal	0.00	1	1	31.0	Steel, 30ГЛ
22	ЭКС-168-3	Brake band lining	See unit 0600-00, item 6	8	16	0.13	Plastics, ΚΦ-3Μ
23	No. 218	Ball bearing 50 × × 160 × 30	No.	2		2.2	
24	No. 3612	Spherical roller bearing 60 × 130 × 46		4		3.0	
25	No. 5218	Roller bearing with twisted rollers 50×160×70		2		7.3	

Unit 0705-00. Rear Propeller Shaft Assy

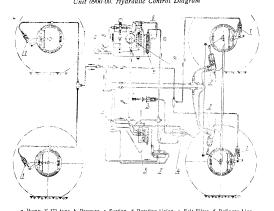
Unit 0706-00. Front Propeller Shaft Assy







Hem number on drawing	Part No.	Part name	Sketch of part	Qua p	ntity er ouique	Part weight, kg	Material, grade
1	. 0706-01	Front propeller shaft	-320	1	1	8.0	Steel, 40X
2	0705-02	Propeller shaft flange	See unit 0705-00, item 2	1	2	3.6	Steel, 45
3	0703-09	Propeller shaft flange	See unit 0700-00, item 14	1.	4	2.7	Steel, 45

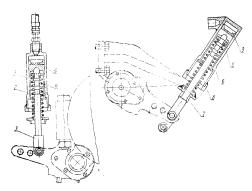


a. Pump, V-171 type. b. Pressure. c. Suction. d. Rotating Union. c. Felt Filter. f. Delivery Line. m. Drain Line. n. Drain Line Filter.

diagram	Unit No.	Unit name	Shown on page
1	0901-00	Front and rear wheel hydraulic brake cylinders	37
2	0905-00	Right and left Excavator swinging cylinders installation	39
3	0906-00	Transmission gear shifting control	42
4	0907A-00	Transmission gear shifting slide-valve control	44
5	0908-00	Excavator swinging slide-valve	45
6	0^09-00* 0918-00**	Accumulator	46
7	0911-00	Front and rear wheel brake slide-valves	48

^{*} Installed on Excavators from No. 1 to No. 527 inclusive. ** Installed on Excavators from No. 528 onward.

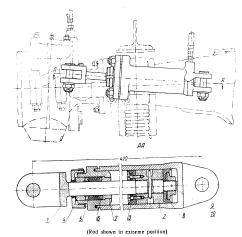
Unit 0901-00. Front and Rear Wheel Hydraulic Brake Cylinders



Part No.				ntity er	Part	Material, grade
Part No.	Part name	Sketch of part	unit		weight, kg	
09011-01	Front wheel cylin- der		2	2	1.33	Steel
0901-01	Front wheel cylin der piston	57 - 57 - 57 - 57 - 57 - 57 - 57 - 57 -	2	2	0.345	Steel, 3
0901-02	Piston stem		2	2	0.42	Steel, 45
	0901-01	09011-01 Front wheel cylinder 0901-01 Front wheel cylinder piston	0901-01 Front wheel cylinder 1910 1901-02 Piston stem	Part No. Part name Sketch of part	10901-01 Front wheel cylinder 2 2 2	Part No. Part name Sketch of part

Unit 0905-00. Right and Left Excavator Swinging Cylinders Installation

Unit 0905-00. Right and Left Excavator Swinging Cylinders Installation



Item number on drawing	Part No.	Part name	Sketch of part	Qua	machine anihoem	Part weight, kg	Material, grade
1	0905-01A	Piston stem	175 S N	1	2	2.4	Steel, 40X

7 %				Quantity per		Part	Material,
Item number on drawing	Part No.	Part name	Sketch of part	mit	machine	weight,	grade
4	0901-03	Piston spring	15 - 15 - 15 - 15 - 15 - 15 - 15 - 15 -	2	2	0.09	N-11
5	09013-00	Rear wheel cylinder	89	2	2	2.05	Steel
6	0901-06	Rear wheel cylin- der piston	705	2	2	0.36	Steel, 3
7	0901-07	Piston stem		2	2	0.42	Steel, 45
8	0901-08	Piston spring	WWW.WW.	2	2	0.12	П-11
9	ЭКС-154-1	Cylinder collar	940	4	5	0.02	Oil-resistant rubber

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0905-06

Packing sleeve

0905-11 Release ring

3-255 Excavator

mber				Qua	ntity er	Part Material,	
Item number on drawing	Part No.	Part name	Sketch of part	nuit	machine	weight,	grade
б	0905-12	Pressure ring		1	2	0.025	Bronze, AЖ 9-4
7	0905-15	Packing sleeve	5 E (0	1	2	0.072	Bronze, AЖ 9-4
8	0005-17	Cylinder collar	087	1	2	0.03	Oil-resistant rubber
9	0905-20	Left cylinder	377	1	1	6.5	Steel, 25.JI III
10	0905-21	Right cylinder	5-8-11-10-11-11-11-11-11-11-11-11-11-11-11-	1	1	6.1	Steel, 25JI III

Unit 0905-00. Right and Left Excavator Swinging Cylinders Installation

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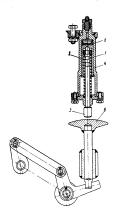
0.132 Bronze, AЖ 9-4

0.025 Bronze, АЖ 9-4

1 2

1 2

Unit 0906-00. Transmission Gear Shifting Control

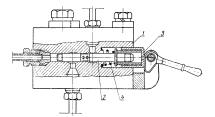


- K				Qua	ntity	Part	
Item number on drawing	Part No.	Part name	Sketch of part	machine		weight,	Material, grade
1	0906-01	Cylinder piston	10-	1	1	0.68	Steel, 3
2	0906-02	Shifting mechanism spring		1	1	0.2	п-и

Unit 0906-00. Transmission Gear Shifting Co

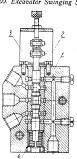
4			Part name Sketch of part	Qua P	ntity er	Part	Material,
Simulation in	Part No.	Part name	Sketch of part	mit	machine	weight,	grade
	0906-03	Piston stem	50 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	1	1	0.41	Steel, 45
	09061-01	Cylinder housing	250	1	10	3.44	Steel, 45
	09062-00	Tappet, assy	257	1	1	3.66	Steel
	экс-154-1	Collar	See unit 0901-00, item 9	1	5	0.02	-
			·				

_



mber				Qu	antity per	Part	Material,
Item number on drawing	Part No.	Part name	Sketch of part	nuit	machine	weight,	grade
1	0907-01 A	Slide-valve housing		1	1	3.1	Gray cast iron, 21-40
2	0911-02	Shifting mechanism slide-valve		1	1	0.08	Steel, 20
3	0911-04	Shifting mechanism cup	- N 1	1	1	0.07	Steel, 3
4	0911-06	. Thrust spring	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1	1	0.007	п-и

Unit 0908-00. Excavator Swinging Slide-Valve

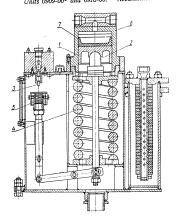


ng lber				Quantity per		Part	Material.
Item number on drawing	Part No.	Part name	Sketch of part	unit		weight, kg	grade
1	0908-01	Slide-valve housing		1	1	2.5	Steel, 3
2	0908-02	Slide-valve sleeve	73	1	1	0.39	Steel, 45
3	0908-03	Swinging mecha- nism slide-valve		1	1	0.15	Steel, 20
4	0908-04	Slide-valve spring		1	1	0.02	п-и



9-255 Excavator

Units 0909-00* and 0918-00.** Accumulator



Item number on drawing	Part No.	Part name	Sketch of part	Qua p	ntity er er	Part weight, kg	Material, grade
1	0909-01	Accumulator piston	8 9	1	1	2.6	Steel, 5
2	0909-02	Accumulator stem	95 50 H 950 950 950 950 950 950 950 950 950 950	1	1	2.21	Steel, 5

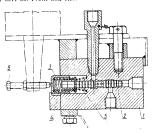
* Installed on Excavators from No. 1 to No. 527 inclusive.
** Installed on Excavators from No. 528 onward.

Unit	0909-00.	Accumulator

	_	

item number on drawing	Part No.	Part name	Sketch of part	Qua p	ntity er auique machine	Part weight, kg	Material, grade
3	0909-07	Accumulator valve	97		1	0.035	Steel, 5
4	0909-17	Stem spring		1	1	17.8	Steel, 60C2
5	0909-22 A	Lever spring	89 A So	1	1	0.05	п-ш
6	09092-01	Accumulator cylinder	- 2010 HZ	1	1	11.0	Steel, 5
7	ЭКС-154-2	Collar	20 o	1	1	0.24	Oil-resistani rubber

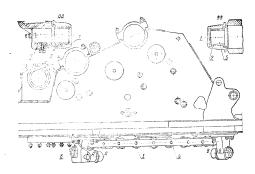
Unit 0911-00. Front and Rear Wheel Brake Slide-Valves



Item number on drawing	Part No.	Part name	Sketch of part	Quan	machine r	Part weight, kg	Material, grade
1	0911-01	Slide-valve hous- ing	50 -36-	1	1	3.1	Gray cast iron, 21-40
2	0911-02	Brake slide-valve	See unit 0907A-00, item 2	1	1	0.08	Steel, 20
3	0911-04	Brake slide-valve cup	See unit 0907A-00, item 3	1	1	0.07	Steel, 3
4	0911-05	Adjusting spring		1	1	0.037	п-н
5	0911-06	Thrust spring	See unit 0907A-00, item 4	1	1	0.007	п-п
6	0911-08	Adjusting screw	A110×1.5	1	1	0.055	Steel, 5

Unit 1100A-00. Turntable

Unit 1100.1-00. Turntable



ltem number on drawing	Part No.	Part name	Sketch of part	Quar p	machine and	Part weight, kg	Material, grade
1	1102-04	Catch roller	3 (05)	3	3	1.92	Steel, 40X
2	1102-06	Catch roller bu- shing		3	3	0.35	Bronze, AЖ 9-4

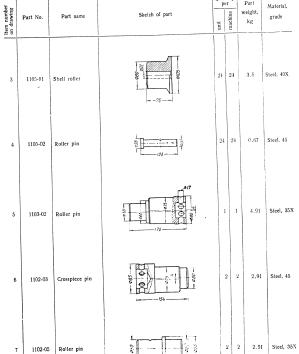
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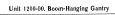
Part No.

Part name

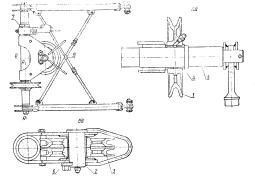
Sketch of part

Quai P till	er er er	Part weight, kg	Material, grade





Unit 1200-00. Boom-Hanging Gantry



		₽	. A 10				
Item number on drawing	Part No.	Part name	Sketch of part	Quar p	machine et	Part weight, kg	Material, grade
1	1230-06	Middle block			2	8.7	Steel, 35/1 111
2	1201-01	Block axle	140	1	1	3.1	Steel, 5

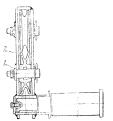
Э-255 Excavator

				Qua	ntity		
Item number on drawing	Part No.	Part name	Sketch of part	mit d	machine 1	Part weight, kg	Materiai, grade
3	1202-01	Gantry block	N (SS)	2	2	5.4	Steel. 35Л III
4	1200-05	Bushing	-32 -	2	2	0.36	Bronze, AЖ 9-4
5	1200-09	Gantry axle	759	1	1	25.6	Steel, 35X
6	1202-92	Busháng	80	2	2	0.28	Bronze, AЖ 94
7	1200-07	Bushing	300	2	2	0.36	Bronze, AЖ 9-4

Unit 1903-00. Dipper-Stick Axle

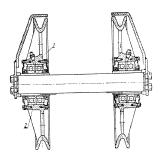
Unit 1903-00. Dipper-Stick Axle





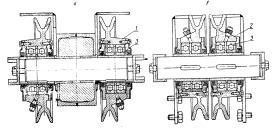
н.				Qua	ntity er	Part	Material,
Item number on drawing	Part No.	Part name	Sketch of part	nuit	machine	weight, kg	grade
1	54202-01	Dipper-stick block	1	2	2	1.2	Steel, 35Л 111
2	1903-05	Block axie	75	2	2	0.24	Steel, 5

Unit 2001-00. Pull Blocks



item number on drawing	Part No.	Part name	Sketch of part	Qua p	machine er	Part weight, kg	Material, grade
1	1902-02	Pull block		2	2	16.92	Steel, 30FЛ
2	No. 216	Ball bearing 80×140×26	-	4	-	1.38	

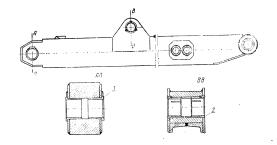
Unit 2002-00 and unit 2102-00. Straight and Back Shovels Hoisting Blocks Unit 2002-00. Straight Shovel Hoisting Blocks Unit 2102-00. Back Shovel Hoisting Blocks



a. Back Shovel Block Installation

			b. Straight Shovel Block Installation				
Item number on drawing	Part No.	Part name	Sketch of part	Quan	machine machine	Part weight, kg	Material, grade
1	2102-03	Hoisting block	1 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2	2	11.04	Steel, 30F.
2	2501-04	Hoisting block		2	4	11.04	Steel, 35/1 111
3	No. 216	Ball bearing 80×140×26	-	4	-	1.38	-

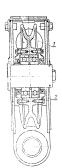
Unit 2200-00. Straight and Back Shovels Dipper-Stick



- L			AND THE RESERVE OF THE PARTY OF	Quan	itity er	Part	Material,
Item number on drawing	Part No.	Part name	Sketch of part	nuit	machine	weight,	grade
1	2101-01	Dipper-stick bushing	F 0 1	2	2	0.01	Bronze, АЖ 9-4
2	2101-04	Dipper-stick bushing		2	2	0.47	Bronze, AЖ 9-4

Unit 2301 A-00. Bucket Block

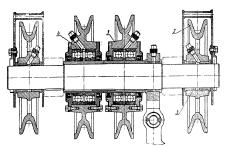
Unit 2301A-00. Bucket Block



_				Quai	ntity er	Part	Material,
Hem number on drawing	Part No.	Part name	Sketch of part	nuit	machine	weight, kg	grade
1	3303-01	Block	0.00 S	The second secon		8.35	Steel, 35JI III
2	No. 214	Ball bearing 70×125×24	-	2		1.04	

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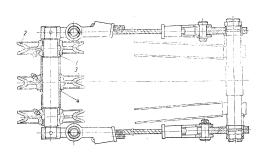
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- Ser	88			Quantity per		Part	Material,
Item number on drawing	Part No.	Part name	Sketch of part	tian	machine	weight, kg	grade
1	2501-04	Head sheave	See unit 2102-00, item 2	2	4	11.04	Steel, 35J1 III
2	2501-08	Head sheave		2	4	7.83	Steel, 35/1 111
3	2501-13	Head sheave bushing	2	4	4	0.28	Bronze, AЖ 9-4
4	No. 216	Ball bearing 80×140×26	_	4	-	1.38	_

Unit 2800-00. Six-Time Boom Tackle

 $Unit\ 2800\text{-}00A.\ \textit{Six-Time Boom Tackle}$

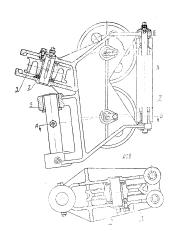


n per				Quantity per		Part	Material,
ltem number on drawing	Part No.	Part name	Sketch of part	nmit	machine	weight, kg	grade
1	2800-02	Block bushing	25	4	4	0.2	Bronze, AЖ 9-4
2	2501-08	Tackle block	See unit 2501-00, item 2	2	4	7.83	Steel, 35/1 111
3	1200-06	Tackle block	See unit 1200-00, item 1	1	2	8.7	Steel, 35Л 111
4	1200-07	Block bushing	See unit 1200-00, item 7	2	2	0.36	
	į.			i		1	1

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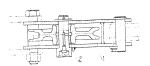
ltem number on drawing	Part No.	Part name	Skeich of part	Quan		Part weight, kg	Material. grade
1	3000 A-03	Vertical block		2	2	7.35	Steel, 35.71 111

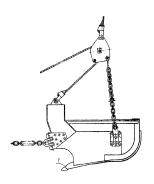
			Unit 3000B-00. Dragline Pointer				61
Item number on drawing	Part No.	Part name	Sketch of part	Quar	machine t	Pari weight, kg	Material, grade
2	3000A-04	Vertical and hori- zontal blocks bushing		4	4	0.25	Bronze AЖ 9-4
3	2000A-05	Horizontal block		2	2	6.21	Steel. 39F.JI
4	3000A-06	Roller axle	2 28	2	2	0.8	Steel, 5
5	30.0-03	Pointer bushing	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	2	2	0.3	Bronze, AЖ 9-4
6	3000-13A	Roller sleeve	3 5 5 5	4	4	0.08	Gray cast iron, 21-40
7	3000-15A	Guide roller	8 - 5		2 :	2 4.9	Steel, 5

Unit 3103-00, Tilting Block Assy

Unit 3190-00. 035 cu. m Dragline Bucket



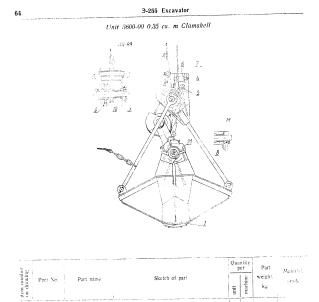




ng				Qua P	ntity er	Part	Material, grade
Nem number on drawing	Part No.	Part name	Skelch of part	nuit	machine	weight, kg	
1	3101-07	Bucket tooth	390 390 300 300 300	4	4	4.2	Steel, 3

Item number on drawing	Part No.	Part name	Sketch of part	Qua	ntity er or	Part weight, kg	Material, grade
1	3103-01	Tilling block		1	1	5.5	Steel, 30TJ1
2	3103-04	Block sieeve	27 - 25 - 25 - 25 - 25 - 25 - 25 - 25 -	2	2	0.135	Steel, 6

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1 3600-05A Clamshell tooth

		Uni	t 3600-00, 0.35 cu. m Clamshell				65
mber	Part No.	Part name	Sketch of part	Quantity per		Part weight, kg	Material,
Hem number on drawing	Part No.		Sactor of per-		machine		grade -
2	32019-13	Block bushing	S R	1	1	1.0	Bronze, AЖ 9-4
3	3260-14	Hanger axle	- 410		1	12.3	Steel, 5
4	3200-15	Bottom guide roller	740	1	1	5.3	Gray cast iron, 15-32
5	3200-16	Guide roller axle		1	1	1.72	Steel, 5
6	3200-17	Top guide roller	- 200 da	2	. 2	1.4	Gray cast iron, 15-32
7	3200-18	Top guide roller axie			2 5	0.81	Steel. 5

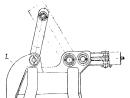
	ı		

9-255	Excavator

5 m				Qua p	ntity er	Part	Material,
ltem number on drawing	Part No.	Part name	Sketch of part	unit	machine	weight, kg	grade
8	32.0-19	Middle bushing	00-	2	2	1.2	Bronze, AЖ 9-4
9	3200-10	Block	300	2	93	1.4	Steel, 3501 HI
10	3200-11	Block shell	77.0	The same of the sa	1	8.987	Steel, 35/4 111
II.	3200-12	Block bushing	80	2	2	1.3	Bronze, AЖ 9-4

Unit 4600-00. 0.25 cu. m Bucket

Unit 4600-00. 0.25 cu. m Bucket



Item number on drawing	Part No.	Part name	Sketch of part	Quar	machine ratify	Part weight, kg	Material, grade
1	45021-00	Bucket bottom	TT	1	1	52.2	Steel
2	4600-01	Bucket tooth	30 - 30	4	4	9.5	Steel, 25Л III
3	4602-01 A	Bottom latch	300 — 1 3 3 4 3 5 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5	1	1	3.7	Steel, 5

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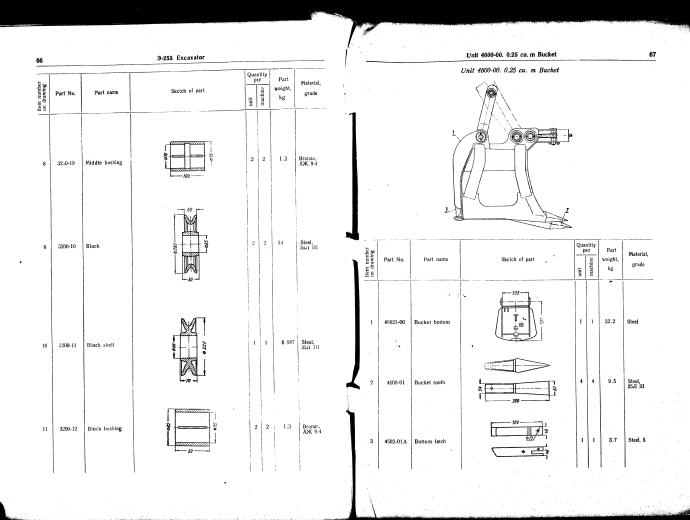
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		Uı	nit 3600-00, 0.35 cu. m Clamshell				65
wing	Part No.	Part name	Sketch of part	Quan	er	Part weight,	Material,
on drawing			·	nmit	machine	kg	grade
2	3200-13	Block bushing		1	1	1.0	Bronze, AЖ 9-4
3	3200-14	Hanger axie	4/9	1	1	12.3	Steel, 5
4	3200-15	Bottom guide roller	746	1	1	5.3	Gray cast iron, 15-32
5	3200-16	Guide roller axle	\$	1	1	1.72	Steel, 5
6	3200-17	Top guide roller	100	2	2	1.4	Gray cast iron, 15-32
7	3200-18	Top guide roller axie		2	2	0.81	Steel, 5

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